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(54) CATALYST FOR REFORMING HYDROCARBON AND METHOD FOR REFORMING
HYDROCARBON

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a catalyst which is suitable for reforming hydrocarbons at a high reaction rate and efficiently reforms hydrocarbons containing sulfur compounds such as hydrogen sulfide and carbonyl sulfides suppressing the influence of sulfur poisoning to the utmost, and to provide a method for reforming hydrocarbons.

SOLUTION: The catalyst for reforming hydrocarbons comprises at least a multiple oxide within multiple oxides carrying a platinum group element on an oxide prepared by adding at least one kind selected from silica, alumina and zeolite to either one or both of a multiple oxide having a composition expressed by the following formula: $aM-bNi-cMg-dO$ (wherein each of a, b, c and d is a molar ratio; $a+b+c=1$; $0.02 \leq a \leq 0.99$; $0.01 \leq b \leq 0.99$; $0.01 \leq c \leq 0.97$; d is the number required for oxygen to maintain a positive element and electrical neutrality; and M is at least one element selected from Ti, Zr, Hf, V, Nb, Ta, Cr, Mo, W, Mn, Cu, Zn, Cd, Al and Si) and a multiple oxide containing Ni and Mg.

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